

IN THE CLAIMS

Please amend claims as follows.

1-7. (canceled)

8. (previously presented) A method of manufacturing a surface treated steel material comprising performing chemical conversion treatment on a steel material having a steel composition containing 0.5 – 13% Cr using a chemical conversion treatment liquid containing zinc and phosphoric acid or manganese and phosphoric acid and further containing potassium to form a chemical conversion film of a zinc-phosphate type or a manganese phosphate type, wherein the chemical conversion treatment is carried out in the absence of fluoride ions.

9. (original) A method of manufacturing a surface treated steel material as claimed in claim 8 wherein the chemical conversion treatment liquid has a molar concentration of potassium-containing ions of at least $6 \times 10^{-4}\%$ and at most $7 \times 10^{-1}\%$.

10. (original) A method of manufacturing a surface treated steel material as claimed in claim 8 wherein chemical conversion treatment is carried out by immersing the surface of the steel material in the chemical

conversion treatment liquid at a temperature of 60 - 100°C for at least five minutes.

11. (original) A method of manufacturing a surface treated steel material as claimed in claim 8 wherein the chemical conversion treatment is carried out by supplying the chemical conversion treatment to the surface of the steel material at a temperature of 60 - 100°C for at least five minutes.

12-19. canceled

20. (previously presented) The method of claim 8, wherein the performing step is on oil well pipe made of the steel material.

21. (new) The method of claim 8, wherein the chemical conversion treatment is carried out in the absence of silicate ions.

22. (new) The method of claim 8, wherein the chemical conversion treatment is carried out in the absence of ammonium ions.

23. (new) The method of claim 22, wherein the chemical conversion treatment is carried out in the absence of silicate ions.

24. (new) The method of claim 8, wherein the performing step is followed by a rinsing treatment with water and a drying treatment.

25. (new) The method of claim 8, wherein the chemical conversion film is formed on the steel surface when a product of chemical reaction between a solution and the surface of steel material adheres to the steel surface in the chemical conversion treatment.